From: Todd, Brandi
To: Leos, Valmichael
Subject: Re: % of pits investigated

Date: Thursday, February 11, 2016 11:59:56 AM

Thank u thank you thank you!!!!!!

Thank you! Alan sent a PDF a while back with a drawn image of the area he estimated that we surveyed with the sonar. I would have thought we did a larger area too, but he was the man behind the screen, so if he doesn't comment back, we'll leave it as is.

Brandi Todd Federal On-Scene Coordinator US EPA Region 6

Mobile: 972-974-2971

On Feb 11, 2016, at 11:00 AM, Leos, Valmichael < Leos. Valmichael@epa.gov > wrote:

See attached map for new data.

Underwater Investigation Area 1 14229 sq ft

Underwater Investigation Area 2 18132 sq ft

Underwater Investigation Area 3 21584 sq ft

Surface Investigation Area 22529 sq ft

Sonar Investigation Area 1786 sq ft

Area of cap underwater is = 19 acres - 6.5 acres = 823947 sq ft - 283619 sq ft = 540,328 sq ft

(NOT including sonar survey which is overlapping) Total Percent of Underwater Cap surveyed by EPA Dive Team = sq ft of cap investigated underwater and surface / total sq ft of cap underwater x 100 = (14229+18132+21584+22529 sq ft) / 540,328 sq ft x 100 = 76474 sq ft / 540,328 sq ft x 100 =

= 14.25 % of cap underwater cap surveyed by EPA Dive Team

<!--[if !supportLists]-->• <!--[endif]-->Val's note. I think we are cheating ourselves of area surveyed by Sonar. I think we did a lot more than the small area you put on your map. Either way. This should give us a good idea of what area we surveyed.

Sincerely,

Valmichael Leos

Remedial Project Manager

U.S. Environmental Protection Agency Region 6

0: 214-665-2283

E: leos.valmichael@epa.gov

From: Leos. Valmichael

Sent: Monday, January 25, 2016 10:09 AM

To: Humphrey, Alan < <u>Humphrey.Alan@epa.gov</u>>; Todd, Brandi < <u>Todd.Brandi@epa.gov</u>>; Gannon, Nick < <u>Gannon.Nick@epa.gov</u>>



Subject: What % of pits are above water and below?

See figure. It is different from the one Alan sent out. For some strange reason, if there is Geospatial data embed in the PDF, I can't get the area or set a custom scale. Weird. I found a different figure that the RPs sent us long ago that does not have any Geospatial data embed. Area calculations work like a charm.

In summary:-

Total Area of cap is 823947 sq ft = **19 acres**

Area of cap **above water** is 283619 sq ft = **6.5** acres

<u>Percentage</u> of cap <u>above water</u> = 6.5 acres / 19 acres x 100 = **34** percent <u>Percentage</u> of cap <u>under water</u> = 100 percent – 34 percent = **66** percent

Sincerely,

Valmichael Leos

Remedial Project Manager

U.S. Environmental Protection Agency Region 6

O: 214-665-2283

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